2011 DRAFTING REQUEST

Assembly	Amendment	(AA-AB23)
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Receive	ed: 05/04/2011				Received By: bt	radewe	
Wanted: Soon			Companion to LRB:				
For: Co	ry Mason (608	3) 266-0634			By/Representing: Vicky Selkowe		
May Co					Drafter: btradev	ve	
Subject: Environment - water quality		quanty		Addl. Drafters:			
			Extra Copies:				
Submit	via email: YES						
Request	ter's email:	Rep.Masor	n@legis.wisc	onsin.gov			
Carbon	copy (CC:) to:						
Pre Top	pic:						
No spec	cific pre topic gi	ven					
Topic:							
Notice t	to water custome	ers					
Instruc	etions:			· · · · · · · · · · · · · · · · · · ·			
	water utility that ag the list of wat				ion to provide noti	ce on all water i	atility bills,
Draftin	g History:				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77.100	
<u>Vers.</u>	<u>Drafted</u>	Reviewed	Typed	<u>Proofed</u>	Submitted	<u>Jacketed</u>	Required
/? /1	btradewe 05/04/2011	csicilia 05/05/2011	jfrantze 05/05/2011		sbasford 05/05/2011	sbasford 05/05/2011	

FE Sent For:

<END>

2011 DRAFTING REQUEST

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1100011001. 03/04/2011	Received:	05/04/2011
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Received By: btradewe

Wanted: Soon

Companion to LRB:

For: Cory Mason (608) 266-0634

By/Representing: Vicky Selkowe

May Contact:

Subject:

Environment - water quality

Drafter: btradewe

Addl. Drafters:

Extra Copies:

Submit via email: YES

Requester's email:

Rep.Mason@legis.wisconsin.gov

Carbon copy (CC:) to:

Pre Topic:

No specific pre topic given

Topic:

Notice to water customers

Instructions:

Require water utility that does not provide continuous disinfection to provide notice on all water utility bills, including the list of water borne diseases that she will send

Drafting History:

Vers.

Drafted

Reviewed

Typed

Proofed

Submitted

Jacketed

Required

/?

btradewe

FE Sent For:

<END>

Tradewell, Becky

From:

Selkowe, Vicky

Sent:

Wednesday, May 04, 2011 2:13 PM

To:

Tradewell, Becky

Subject:

Groundwater-borne Viruses & illnesses

Attachments:

Borchardt presentation on dirty drinking water 4.11.pdf

Hi Becky.

Attached is the brief presentation from Dr. Borchardt.

The groundwater-borne viruses & illnesses we'd like enumerated in each of that first series of amendments we discussed are found in the first slide in the third row on page 1 of the attached presentation: hand, foot & mouth disease, conjunctivitis; meningitis; myocarditis; poliomyelitis; diabetes; chronic fatigue syndrome; other enteroviruses; rotavirus; chepatitis A virus; gastroenteritis; hepatitis; noroviruses; adenoviruses; acute respiratory illness; pneumonia, neurological diseases.

Thanks,



Borchardt resentation on dirt..

Vicvk

Vicky Selkowe
Office of State Representative Cory Mason
62nd Assembly District

State Capitol, Room 6 North PO Box 8953, Madison, WI 53708

Phone: (608) 266-0634 Toll-free: (888) 534-0062

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Groundwater-Borne Viruses and lilness Risk in Wisconsin

Mark Borchardt, Ph.D. USDA-Agricultural Research Service

National Caucus of Emironmental Legislators' 9th Annual Africanst'Great Lakes Forum December 4, 2010

Wisconsin's Groundwater

- Groundwater supports the water needs of 2/3s of WI residents and 1/3 of WI businesses and industries.
- From 1985 to 2000 Wi groundwater demandincreased to 804 from 570 million gallons per day.
- Water table drawdown over the past century: Dane County = 60 ft; Green Bay region = 300 ft; Waukesha County = 450 ft.
- As groundwater becomes less available groundwater quality takes on added importance

Date obtained from the WI DAIL web side

Waterborne Disease Outbreaks in the USA

- From 1971 to 2006 there were nearly 750 outbreaks associated with an Infectious agent in drinking water; 60% of the outbreaks were attributable to groundwater
- Pathogen in about 50% of outbreaks is unknown and assumed viral
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Present in...

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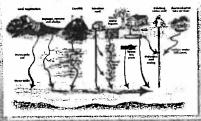
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Municipal webs in an advetal aquifur

Virus Subsurface Transport Potential

- Small size (~ 50 nm) and negative charge favor movement through soil
- Survivability ravored by low temp, moisture, and absence of UV light
- Documented transport, penetration as deep as 72 m, horizontal migration up to 1500 m.

Virus Sources and Infiltration Routes Into Groundwater



Monthles from Manage and Cartie 194

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Enteric Viruses -Clinical Significance

- Enteroviruses: fever, "summer cold", diamhea, hand, foot, mouth disease, conjunctivitia, meningitis, myccardilis, pollomyellite, diabetes? chronic tatigue syndrome?
- Rotavirus: severe diarrhea and vomiting, 50,000 hospitalizations/year in US
- A y nate on the last to fatality rate of
- Noroviruses: gastroenterilis, "the flu"
- Adenoviruses: diarrhea, acute respiratory lineas, preumonia, conjunctivitis, neurological diseases, obsity/

Health Risk or Non-Issue?

- So viruses are present in public water supply and domestic wells ...
- Does it matter?
- · Is there any effect on public health?



Case Study

Norovirus Outbreak Caused by a New Septic System in a Dolomite Aquifer

by Mask A. Bardiardt¹, Kraveris R. Berdhary², E. Caldo Honorder 82³, Remain J. Releasy², Scott C. Alexa John B. Anghe², Lauret A. Brasen³, Boins M. Farcet², Jeffrey A. Grenn⁴, and Sounce K. Sporters²





State of Misconsin 2011 - 2012 LEGISLATURE

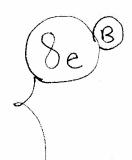


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ASSEMBLY AMENDMENT, TO 2011 ASSEMBLY BILL 23

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9 (8e)

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At the locations indicated, amend the bill as follows:

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1. Page 2, line 3: after that line insert:

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SECTION **2e.** 281.17 (2e) of the statutes is created to read:

4

disinfection of the water that it provides shall include a notice on each water bill that informs the customer that the municipal water system does not provide continuous disinfection of water and that water that is not disinfected may contain the following: viruses that may cause hand, foot, and mouth disease, conjunctivitis, meningitis, myocarditis, poliomyelitis, diabetes, and chronic fatigue syndrome, as well as other enteroviruses; rotaviruses; hepatitis A virus, which may cause gastroenteritis and hepatitis; norovirus; and adenoviruses, which may cause acute respiratory ilhess,

10 11)

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pneumonia, and neurological diseases.".

one word